

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-317793

(43)Date of publication of application : 09.11.1992

(51)Int.Cl.

C02F 1/44

B01D 63/06

B01D 63/16

(21)Application number : 03-084299

(71)Applicant : KUBOTA CORP

(22)Date of filing : 17.04.1991

(72)Inventor : YAMAGATA MASATSUGU
NARUKAMI YOSHIHISA
TOKUSHIMA KANJI

(54) WATER TREATMENT APPARATUS

(57)Abstract:

PURPOSE: To prolong the time until a membrane module which is immersed in a liquid to be treated in a water treatment apparatus should be back-washed.

CONSTITUTION: A membrane module 4 has membrane elements 3 which are able to filter a liquid to be treated 2. The membrane module 4 is supported by rotary shafts 11, 12 and the rotary shaft 11 is driven by a motor 14.

Due to this, rotating force is given to the membrane module 4 immersed in the liquid to be treated 2 and flow speed is applied to the surfaces of the membrane elements 3 and thus scales are removed. Scale formation can be reduced even if the water treatment apparatus is operated for a long duration and the time until back washing becomes necessary is greatly prolonged.

